

REMARKS

This application contains claims 1-44. Claims 1, 4, 5, 20, 24, 25 and 28 are hereby amended, and claims 42-44 are added. No new matter has been introduced. Reconsideration is respectfully requested.

The drawings were objected to for failing to show the "body" recited in claims 1 and 20. Applicant notes, however, that Fig. 1B as filed shows a medical device 80 having a body 85 (described in the specification on page 10, line 5). Therefore, Applicant respectfully requests that the objection to the drawings be withdrawn.

Claims 1-41 were rejected under 35 U.S.C. 103(a) over Saad (U.S. Patent 5,727,553) in view of Normann (U.S. Patent 4,639,670). Applicant has amended claims 1 and 20 in order to clarify the distinction of the present invention over these references. The amended claims now recite that the medical device comprises a signal processor, which is adapted to determine the temperature of the position sensor, and to determine the location coordinates of the body of the medical device responsively to the temperature (and, of course, to the signals provided by the position sensor). The signal processor is shown in Fig. 4, and its use in determining the temperature of the position sensor is described at length in the specification, particularly on pages 17-24. The criticality of this temperature determination in accurate sensing of location coordinates is illustrated in Table 2 (page 21) and is described in the specification with reference to the table.

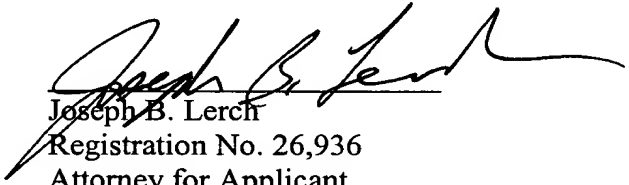
The cited art neither teaches nor suggests the use of temperature sensing in accurate magnetic position sensing. Therefore, Applicant respectfully submits that amended claims 1 and 20 are patentable. In view of the patentability of these independent claims, dependent claims 2-19 and 21-41 are believed to be patentable, as well. Note that claims 4, 5, 24 and 25 have been amended for proper logical dependence from amended claims 1 and 20. Claim 28 has been amended to clarify the use of the term "winding" in this claim.

New claims 42-44 have been added to recite additional features of the present invention relating to temperature-dependent position sensing. These claims state that the signal processor senses a variation in an electrical characteristic of the position sensor, specifically in the resistance of a winding in the position sensor, in order to determine the temperature of the position sensor. These aspects of the present invention are described in the specification on pages 17-19.

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Applicant believes the amendments and remarks presented hereinabove to be fully responsive to all of the objections and grounds of rejection raised by the Examiner. In view of these amendments and remarks, applicant respectfully submits that all of the claims in the present application are in order for allowance. Notice to this effect is hereby requested.

Respectfully submitted,

  
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